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THE UNITED STATES PATENT AND TRADEMARK OFFICE

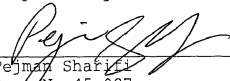
Applicants : Cameron W. Tanner and Patrick D. Tepesch  
Application No.: 09/803,133  
Filed : March 9, 2001  
For : METHOD APPARATUS FOR IMAGE ANALYSIS  
Group Art Unit :  
Examiner :  
Hon. Commissioner for Patents  
Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWING

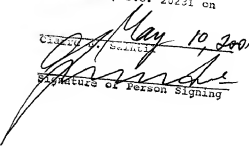
Sir:

This application was filed with 30 sheets of informal drawings. Formal drawings comprising 30 sheets for FIGS. 1-30 are now submitted herewith.

Respectfully submitted,

  
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I hereby certify that this  
drawing is being  
submitted to the  
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Washington, D.C. 20231 on

May 10 2001  
  
Signature of Person Signing

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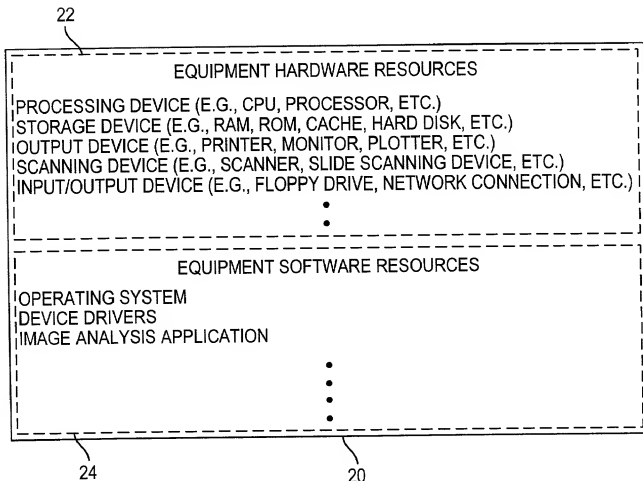


FIG. 1

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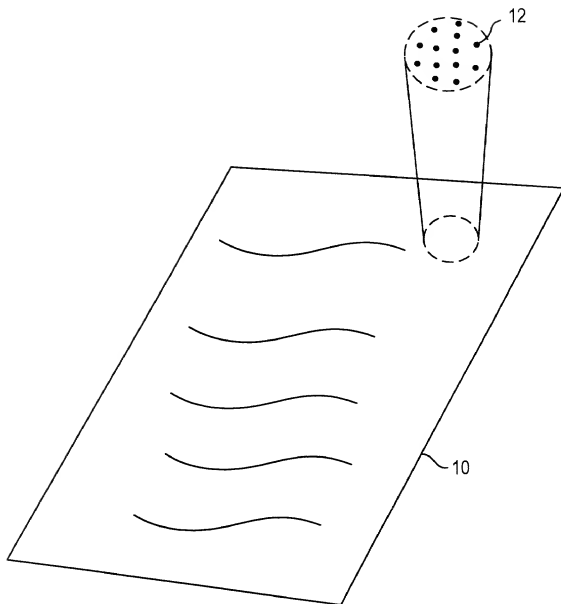


FIG. 2

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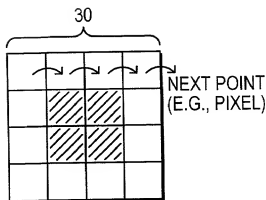


FIG. 3a

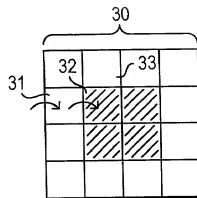


FIG. 3b

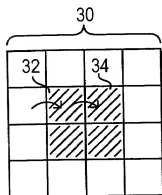


FIG. 3c

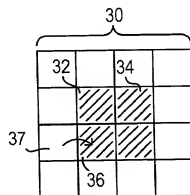


FIG. 3d

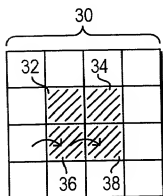


FIG. 3e

TOP SECRET, CS/NOFORN

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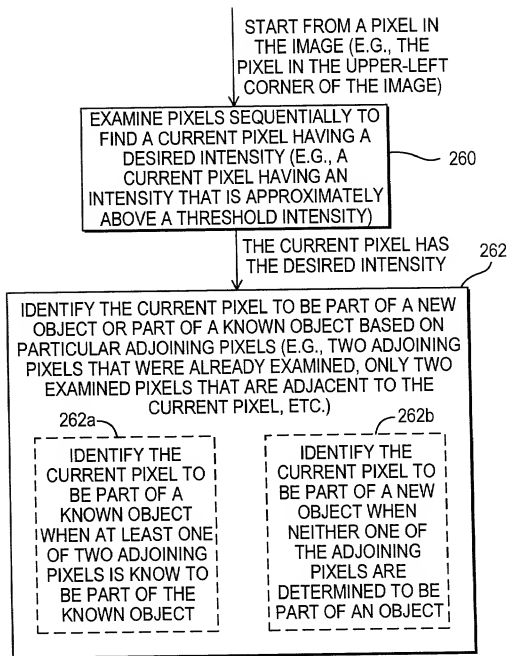
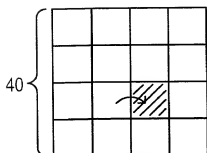


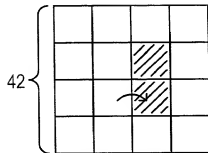
FIG. 3f

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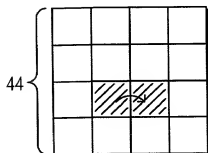
NEW SPOT

**FIG. 4a**



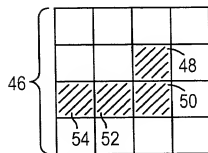
KNOWN SPOT

**FIG. 4b**



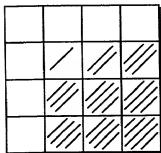
KNOWN SPOT

**FIG. 4c**

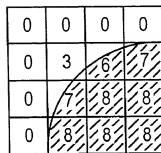


TWO KNOWN SPOTS

**FIG. 4d**



**FIG. 4e**



**FIG. 4f**

LIGHT INTENSITY RANGE

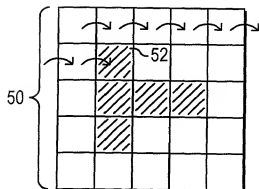


FIG. 5a

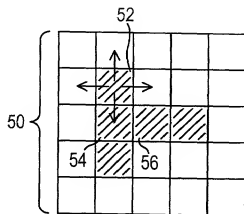
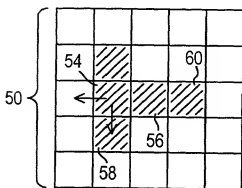


FIG. 5b



**FIG. 5c**

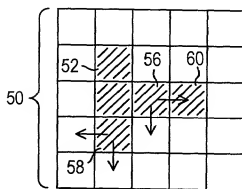
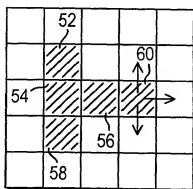


FIG. 5d



**FIG. 5e**

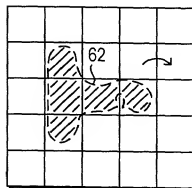


FIG. 5f

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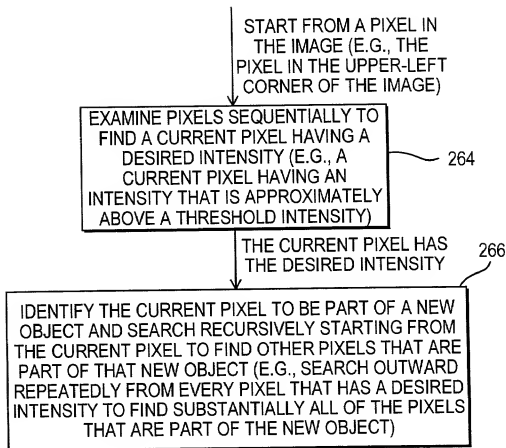
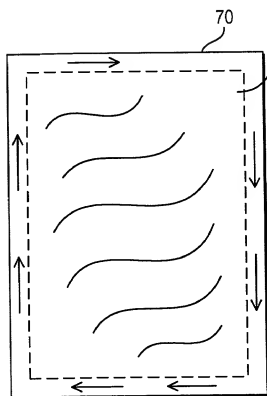


FIG. 5g

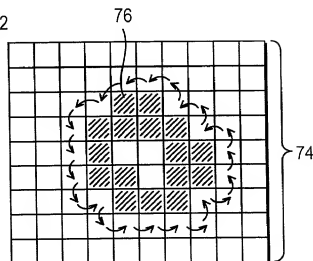


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EDGE REJECTION

FIG. 6a



HOLE - FILLING

FIG. 6b

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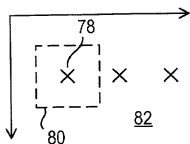


FIG. 7a

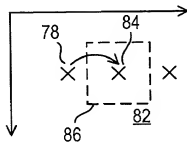


FIG. 7b

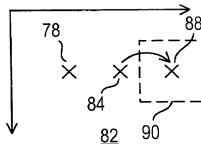


FIG. 7c

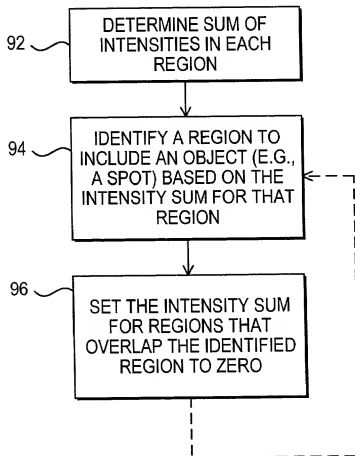


FIG. 8a

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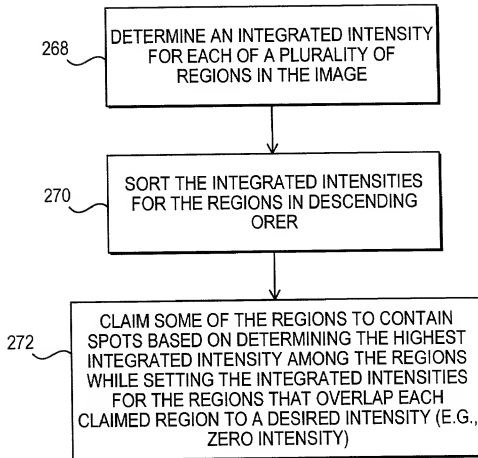


FIG. 8b

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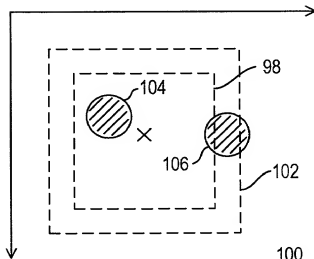


FIG. 9

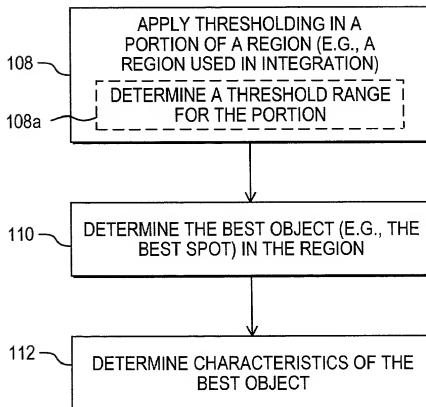


FIG. 10

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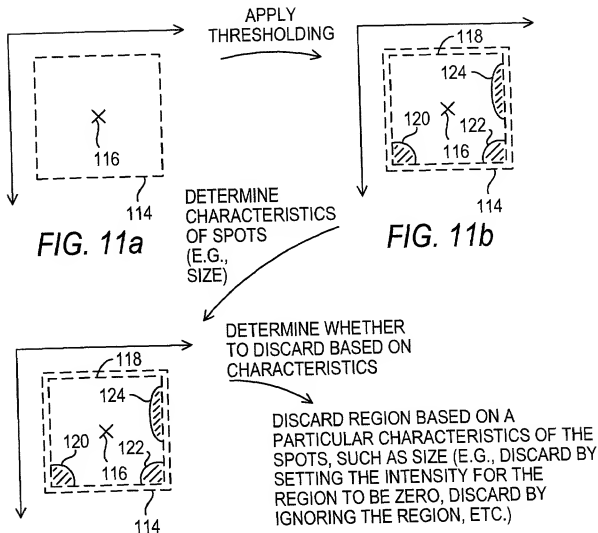


FIG. 11c

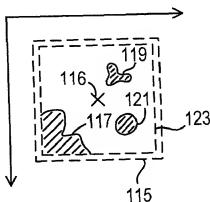
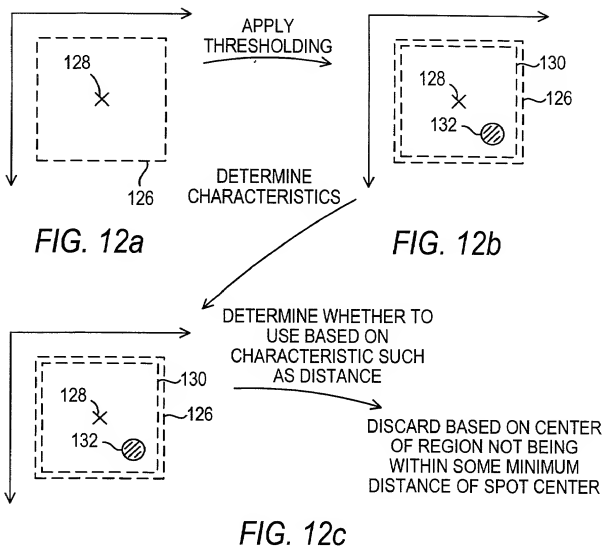


FIG. 11d

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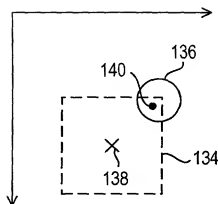


FIG. 13a

MOVE REGION TO BE CENTERED ON CALCULATED SPOT CENTER

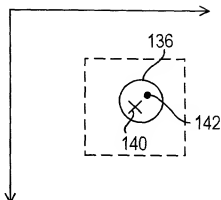


FIG. 13b

MOVE REGION TO BE CENTERED ON CALCULATED SPOT CENTER

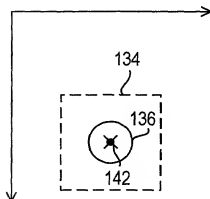


FIG. 13c

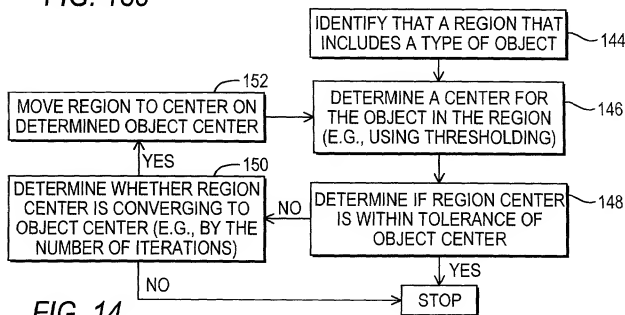


FIG. 14

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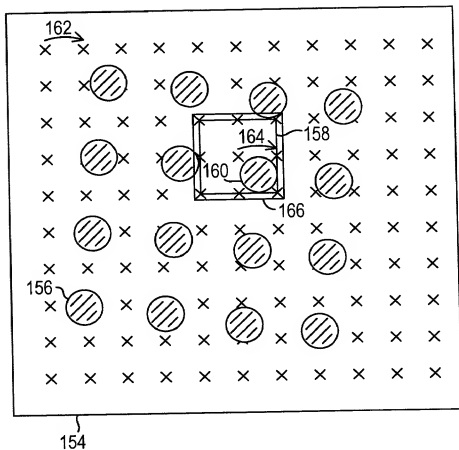


FIG. 15



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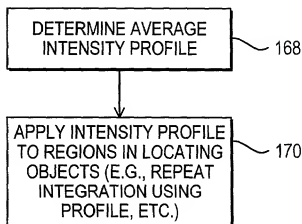


FIG. 16

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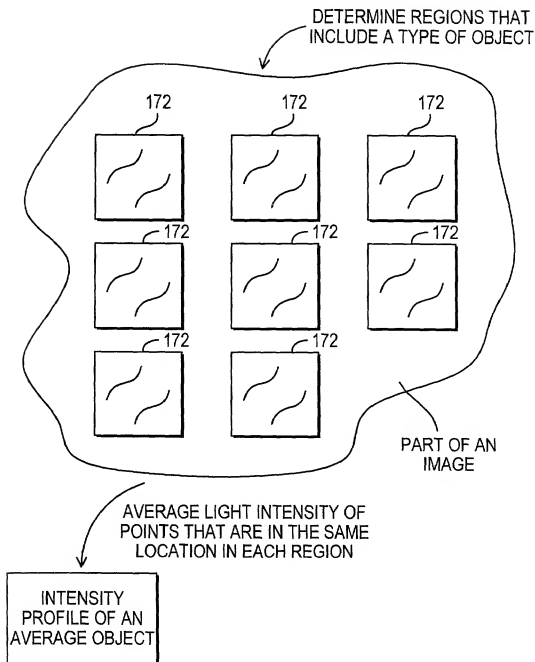


FIG. 17a

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[illegible]

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FIG. 17b

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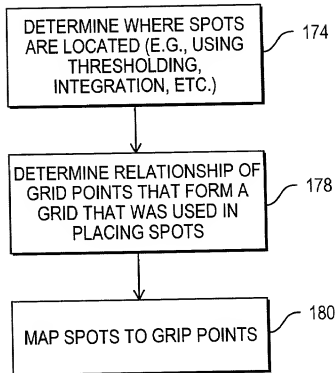
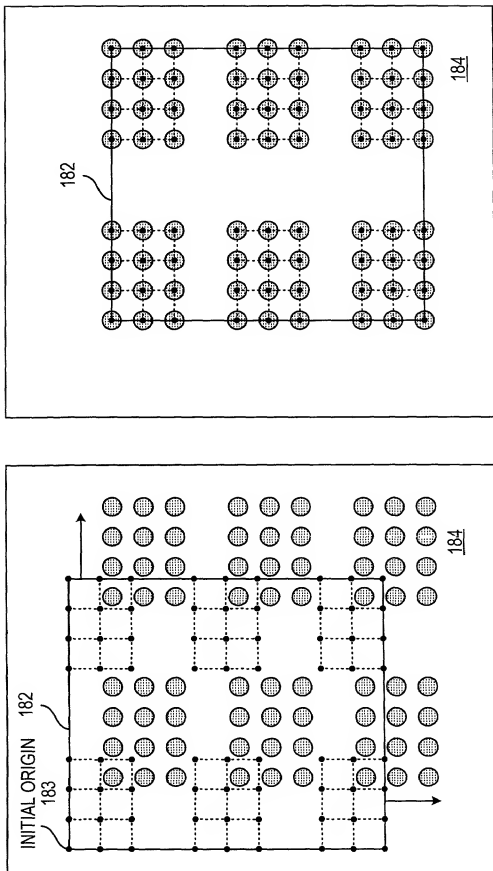


FIG. 18

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BEST ORIGIN FOR GRID FOUND

MOVING GRID ON IMAGE

FIG. 19

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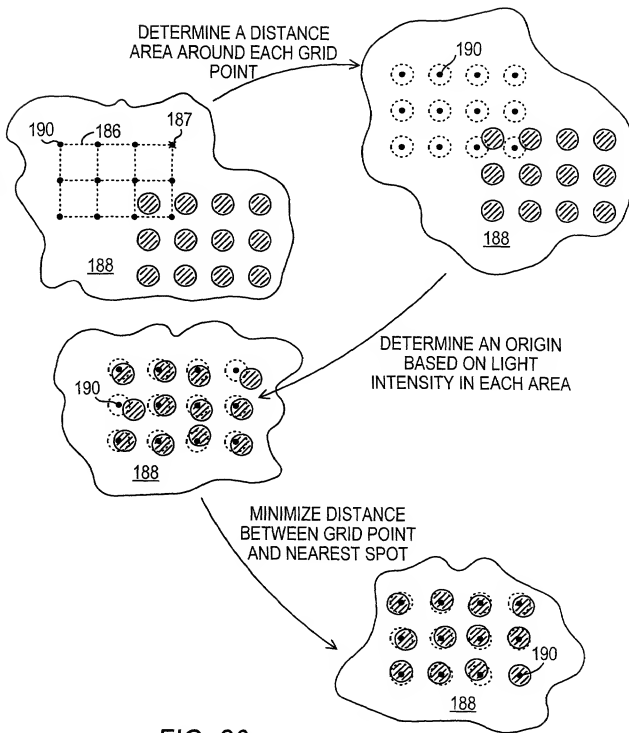


FIG. 20

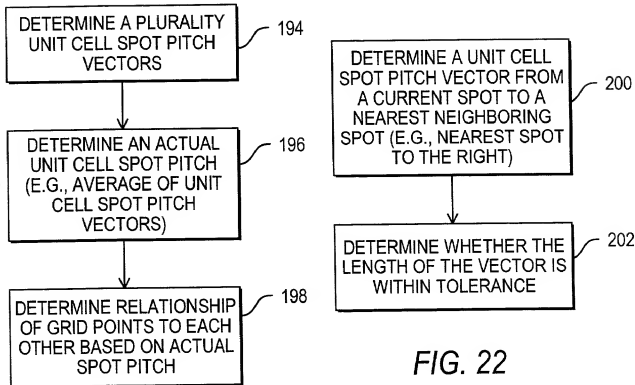


FIG. 21

FIG. 22

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NEAREST NEIGHBOR WITHIN  
TOLERANCE FOR SPOT PITCH VECTOR

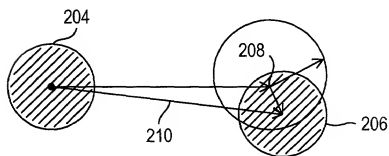


FIG. 23a

NEAREST NEIGHBOR NOT WITHIN  
TOLERANCE FOR SPOT PITCH VECTOR

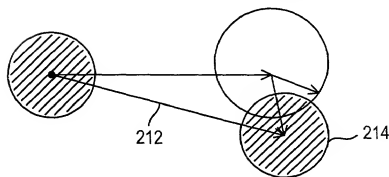


FIG. 23b

09082737 051401  
104150 2320820



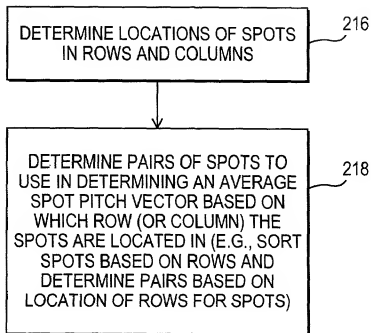


FIG. 24

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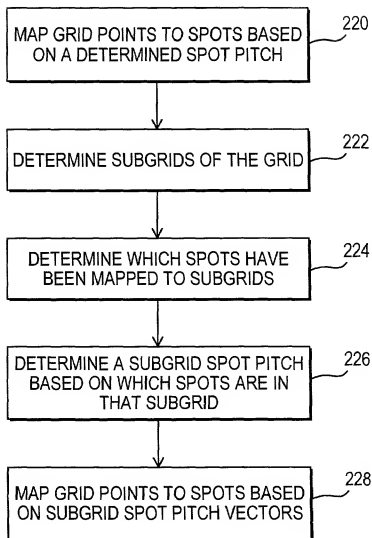


FIG. 25

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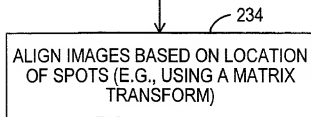
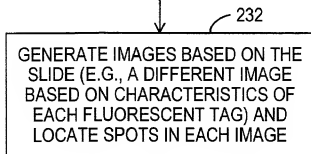
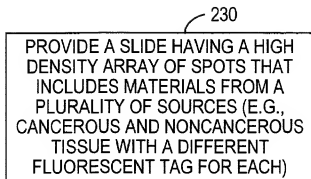


FIG. 26a

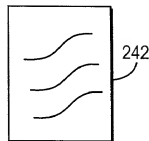


FIG. 27a

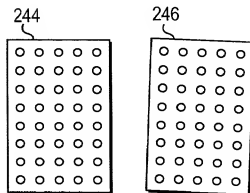


FIG. 27b

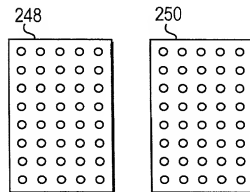


FIG. 27c

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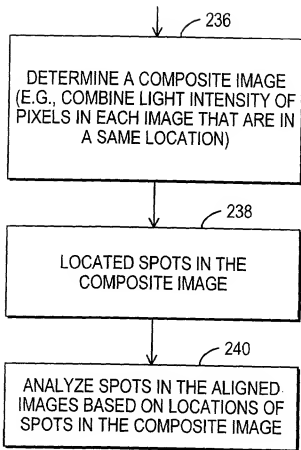


FIG. 26b

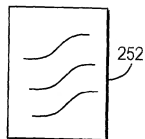


FIG. 27d

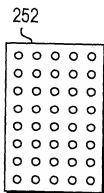


FIG. 27e

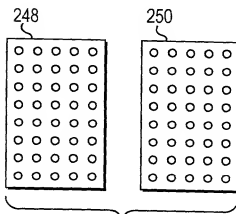


FIG. 27f

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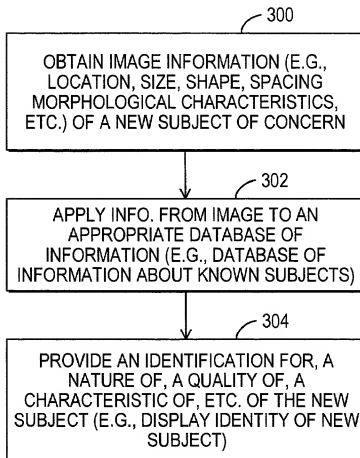


FIG. 28

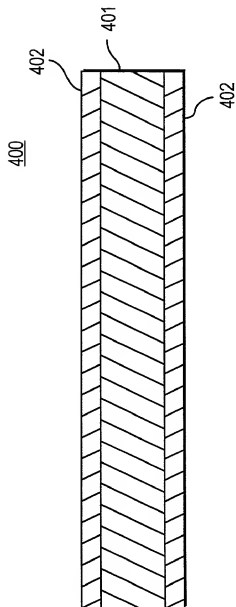


FIG. 29

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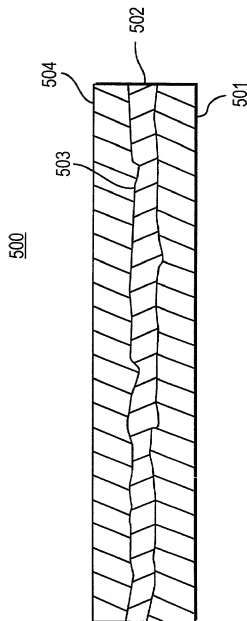


FIG. 30